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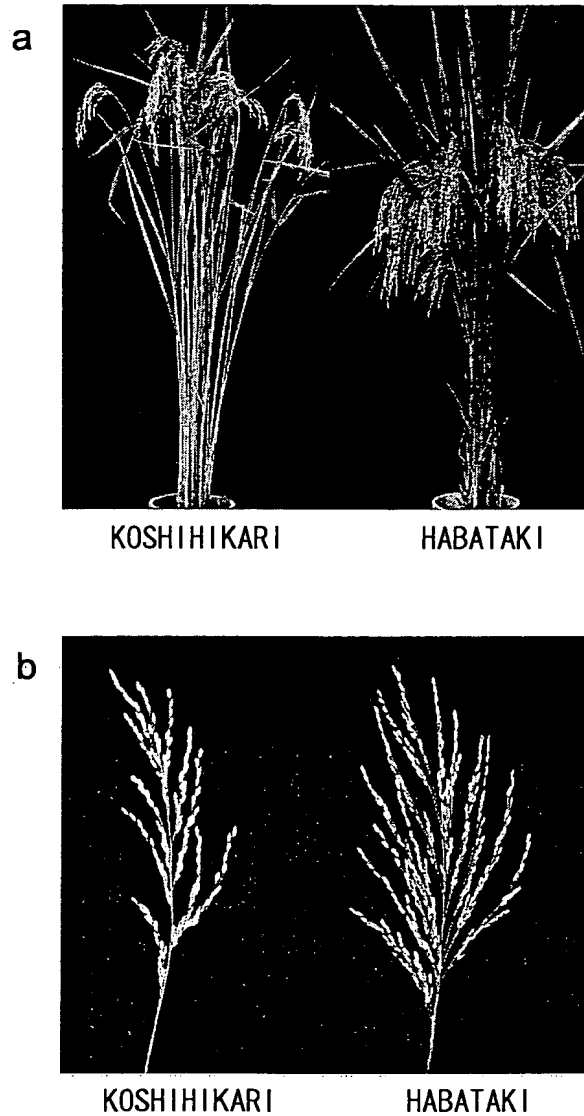


FIG. 1

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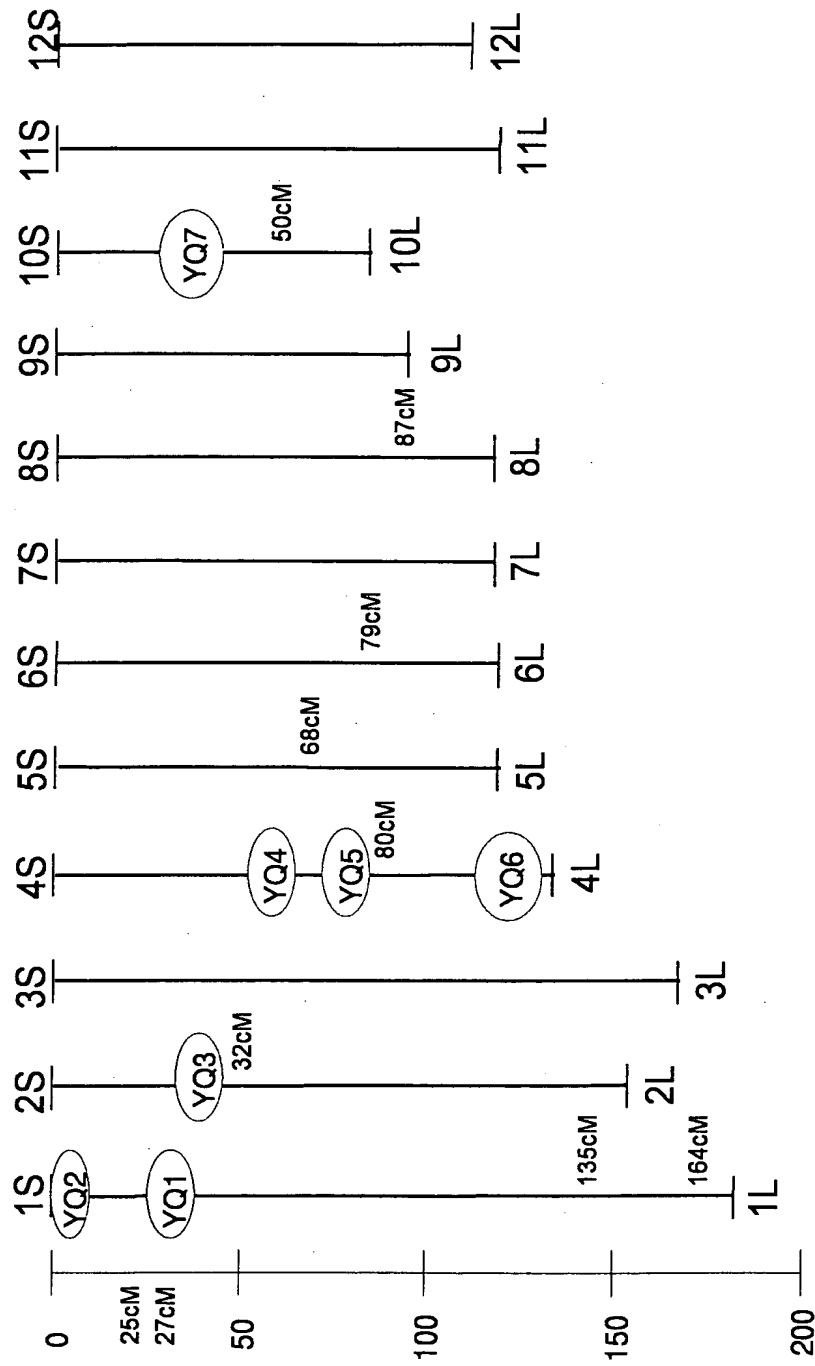
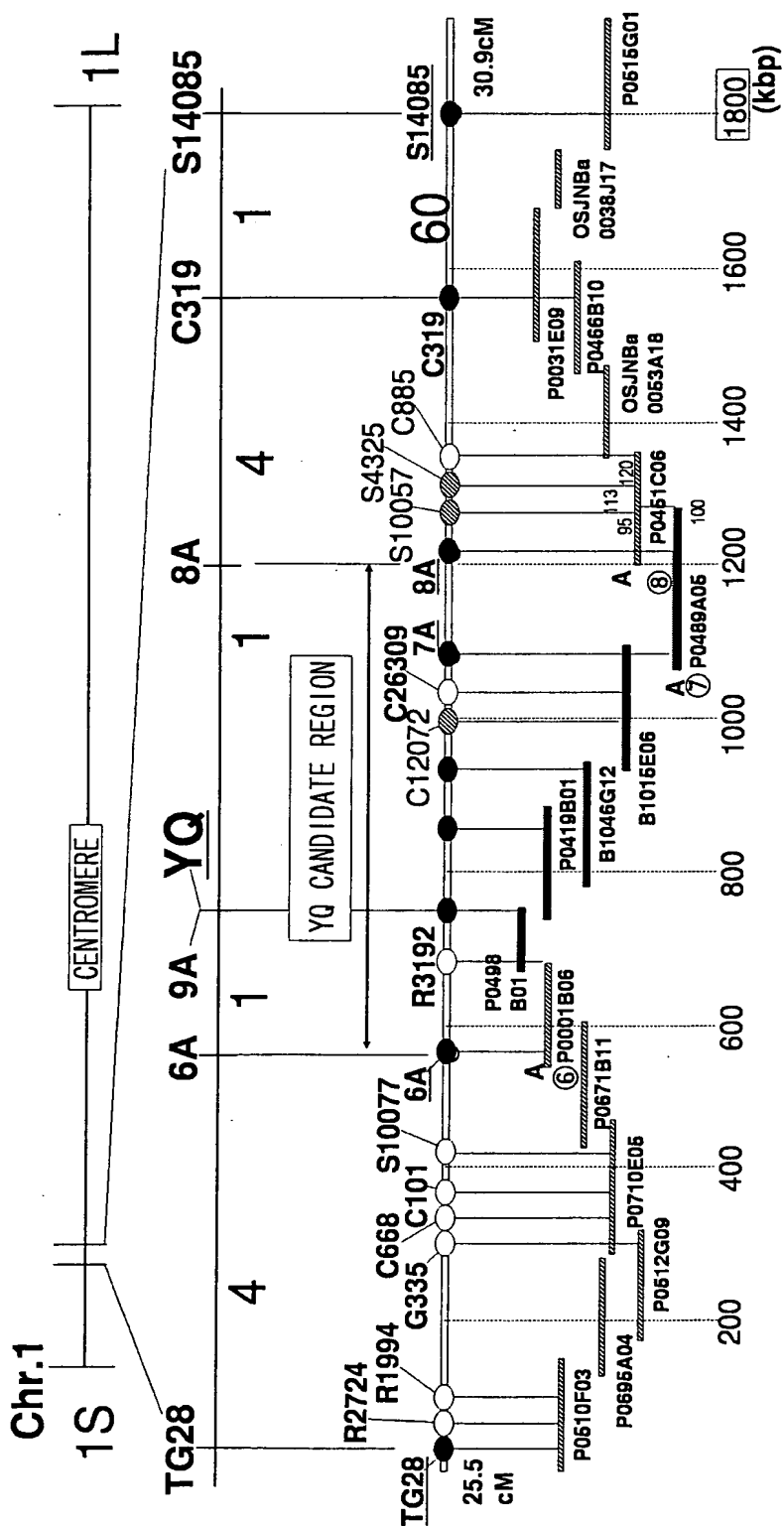


FIG. 2



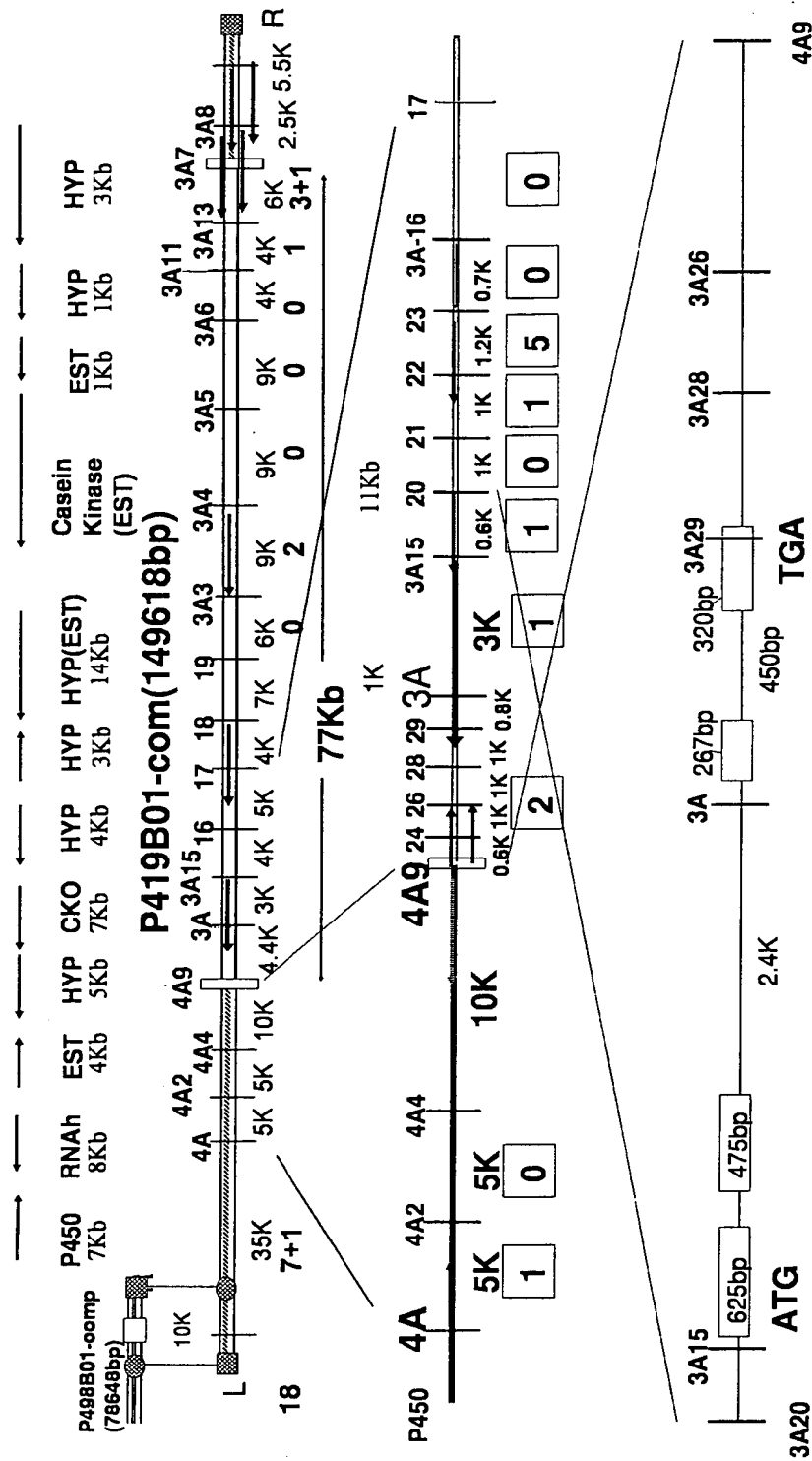


FIG. 4

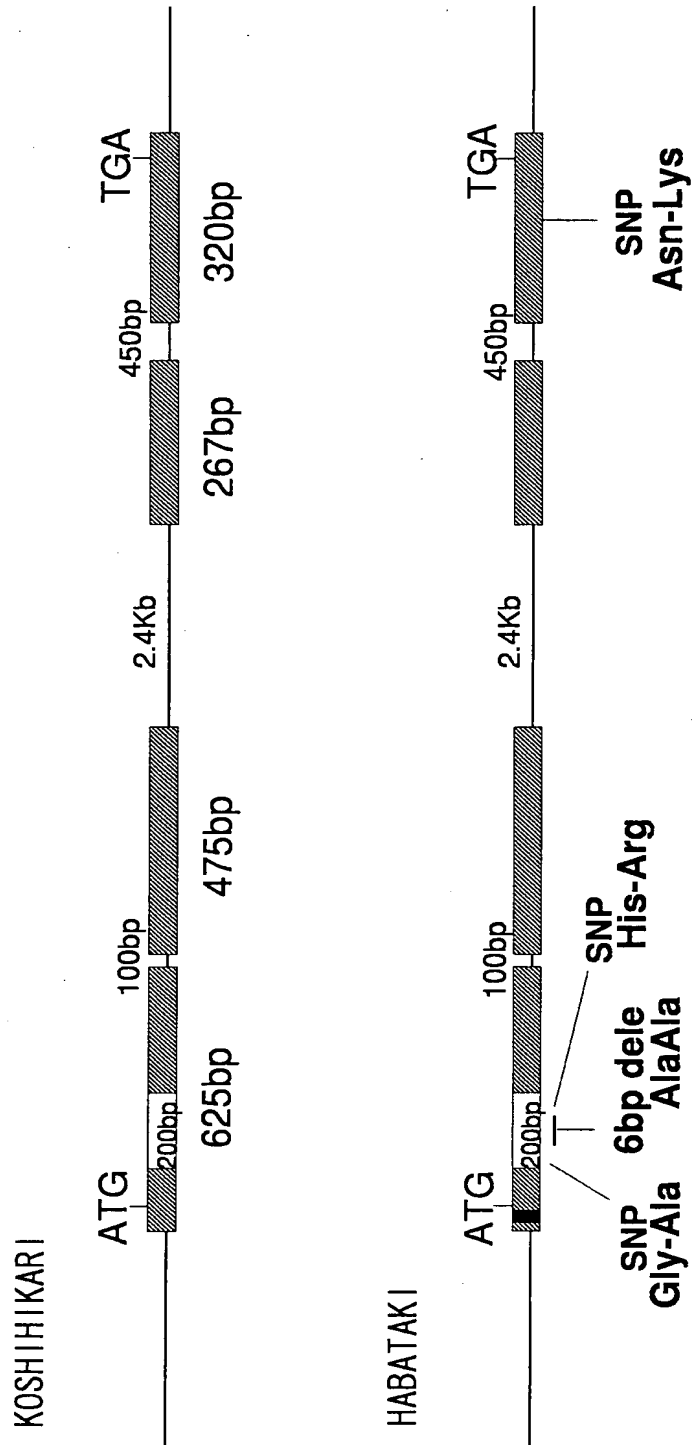


FIG. 5

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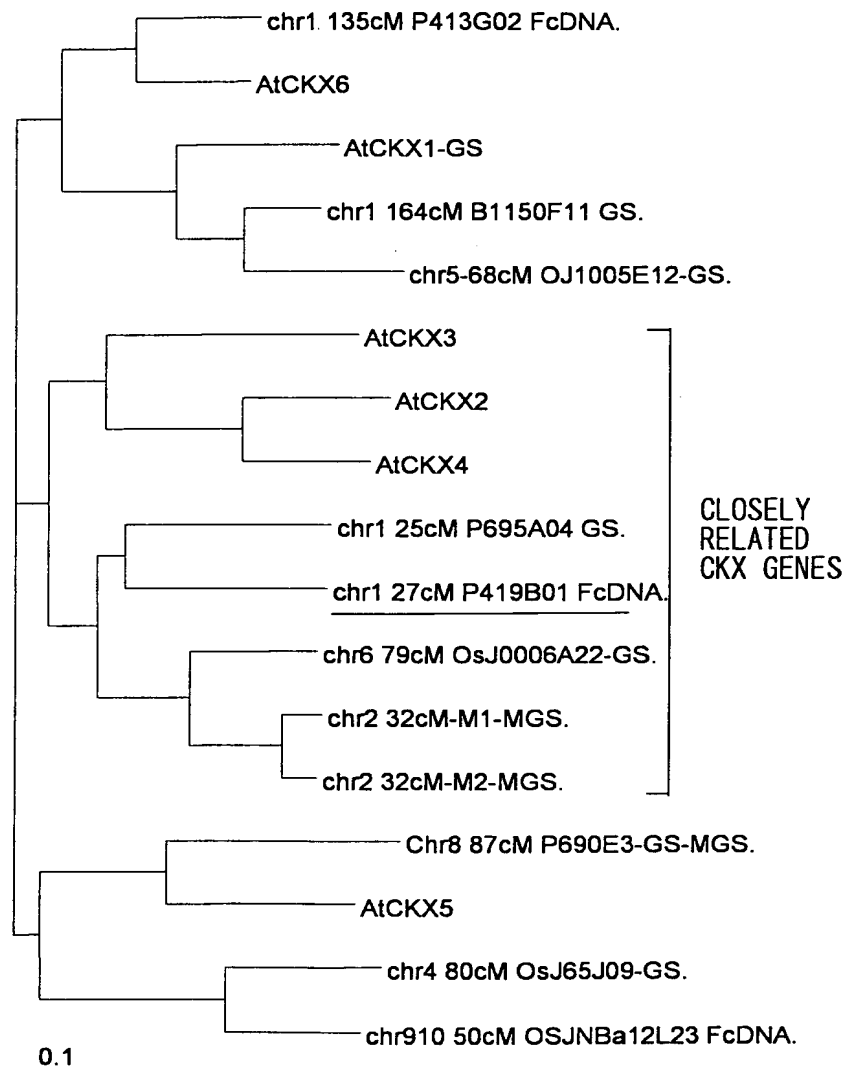


FIG. 6

AtCKX2	1	-----MANLALM-ITLITVLMITKSSNGIKID-----PKSLNITLSTDPBI	41
AtCKX3	1	-----MASVNLRSQVALIAITIVIIITLSTPITNTSPQPINI-----SHNEFAGKLTSSSS	53
AtCKX4	1	-----MTNTLCLSLITLITFFISLTPTLIK-----SOEGIDVF-----PISLNITVLIDPFS	48
chr1_25cM_P695A04_GS	1	MAAIYL-LIA-ALIASSHALAAHGAGGGVPLAAAPLPFPD-----AASGKLRTDPNAT	54
chr1_27cM_P419B01_FcDNA	1	MAVL-LML-N-CFKATAPPPIPPSSASSASFLD-----L-----GAP-----IRADERGT	48
chr2_32cM-M1-MGS	1	-----MAARCSIA-FINVMASCLSVV-----SAG-----DFAHVSARK	36
chr2_32cM-M2-MGS	1	-----MAARCSIA-FINIMASCLSVV-----SAG-----DFAHVSARK	36
chr6_79cM_OsJ0006A22-GS	1	-----MPRAQLTITFLIVTSFLSTVPYLAPV-----HGG-----VITSY-DVSSLDIMEX	44
AtCKX2	42	ISARSH-DFGNIITVTPTGGVICPSSSTEDISALLQYAAN-----G-KS-----TQVVAARQ	90
AtCKX3	54	SVESARTDFGHVTKIFPSAVLIPSSVEDITOLIKLSFDSQL-----S-----PPLAARGH	103
AtCKX4	49	ISARSH-DFGNIITDENPBAVLCPSSSTTEVARLLAFANGGFSYKSGTSPASTFKVAAARQ	107
chr1_25cM_P695A04_GS	55	VPASND-----FGNITR-----A-LP-----ARVAFGSGGVDELAAVVAARAR-ITVAFAR	103
chr1_27cM_P419B01_FcDNA	49	ARASAD-----FGNLSVAGVBAAPLAAARVLYSAPADIALPASCARPA-R-FAVSAROC	104
chr2_32cM-M1-MGS	37	LAVDRD-TT-ARASSDFRIVAAAPERVLAHPATPAEIELVAFSASSPS-R-TPVAPRQ	92
chr2_32cM-M2-MGS	37	LAVDRN-ST-ARASSDFRIVAAAPERVLAHPATPAEIELVAFSASSPS-R-TPVAPRQ	92
chr6_79cM_OsJ0006A22-GS	45	IHTDHD-AT-TKASSDFEHIWHATPNGLFAATFPAIDIALPALSQDT-R-PTVAPRQ	100
AtCKX2	91	GHSNBOASVSOGVJINMTCTITDVV-----VSKDKK-----PAVVAAGTLMVDVLKKTAEK	141
AtCKX3	104	GHSARGOASAKGGVVVNIARSMVNRDRG-----IKVSRATCL-----VVDVDAALIMIEVLNKTDEL	158
AtCKX4	108	GHSARGOASAPGGVVVNIATCAMAAPPAVVISADGT-----PAVVAAGTLMVDVLKKTAEK	154
chr1_25cM_P695A04_GS	104	GHSNBOALPAGGGVVVNIATCMAAPPAVVISADGT-----VVDAGGEQLMVDVLKKTAEK	159
chr1_27cM_P419B01_FcDNA	105	GHSVHGOASAPGGVVVNIATCMAAPPAVVISADGT-----VVDAGGEQLMVDVLKKTAEK	163
chr2_32cM-M1-MGS	93	GHSARGOASAPGGVVVNIATCMAAPPAVVISADGT-----VVDAGGEQLMVDVLKKTAEK	151
chr2_32cM-M2-MGS	93	GHSARGOASAPGGVVVNIATCMAAPPAVVISADGT-----VVDAGGEQLMVDVLKKTAEK	148
chr6_79cM_OsJ0006A22-GS	101	GHSARGOASAPGGVJINMTCTITDVV-----VSKDKK-----PAVVAAGTLMVDVLKKTAEK	159
AtCKX2	142	AVSPVSTVDYLHITVAGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	201
AtCKX3	159	GLTPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	218
AtCKX4	165	AVSPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	224
chr1_25cM_P695A04_GS	160	AVAPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	219
chr1_27cM_P419B01_FcDNA	164	GLTPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	223
chr2_32cM-M1-MGS	152	GLAPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	211
chr2_32cM-M2-MGS	149	GLAPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	208
chr6_79cM_OsJ0006A22-GS	160	GLTPVSTVDYLHITVGGTILSNAGIGGGVFRNGRLENVLELDVITGKGEMLTCSRQLNPE	205

FIG. 7

AtCKX2	202	LFYVGLGGLGQFGIITRAARIM	DHAPKRAKIFRMLYSDFTTFTKQERLISMANDIGVDY	261
AtCKX3	219	LFYVGLGGLGQFGIITRAARIK	LEVAPKRAKILFLMILFFSEFTRDQERVSKTDGV--DF	276
AtCKX4	225	LFYVGLGGLGQFGIITRAARJAL	DHAPTRVKISGRILYSDFSAFKRQERLISMTNDLGVDY	284
chr1_25cM_P695A04_GS	220	LFDRVGLGGLGQFGIITRAARVAVE	PAPAPARINVLVADFARESADQERLVAARPDSHGHP	279
chr1_27cM_P419B01_FcDNA	224	LFDRVGLGGLGQFGIITRAARIP	PAPAPARINVLVATTAAAMTADQERLTVDRAGGAGA	283
chr2_32cM-M1-MGS	212	LFYVGLGGLGQFGIITRAARIG	EPAPKRVINVLAKSVVTFTRDQE--ISKRASEA--	268
chr2_32cM-M2-MGS	209	LFYVGLGGLGQFGIITRAARIG	EPAPKRVINVLAKSVVATFKDQE--ISKRASEA--	265
chr6_79cM_OsJ0005A22-GS	206	-----GLGQFGIITRAARJAL	EPAPKRVINVLAKSVHPETDQE--ISKWASGS--	255
AtCKX2	262	LEQIFLSNRVMD	-----SEFPSSQSKVADVKQHGII--	296
AtCKX3	277	LEESIMVDHPPDNIRS	-----YPPSHLPIFSTIVKRAHVIV	315
AtCKX4	285	LEQLMNSNFMVD	-----SFFPLSQTRVSESINDHRII--	319
chr1_25cM_P695A04_GS	280	W-----SVVEGRMYDAGRG	YVALKSSG-----G-----FFSDADARVVALFAARNATA	324
chr1_27cM_P419B01_FcDNA	284	VGLMDIYVEGSMHLNQ	GLVETARTQPPSPSSSSSSFFSDADEARVVALA--KEAGG	340
chr2_32cM-M1-MGS	269	---FD---YVEGQMLNRT	---TEGPKSTP-----FSAFQIDLAGLA--SESVSG	311
chr2_32cM-M2-MGS	266	---FD---YVEGQMLNRT	---TEGPKSTP-----FSSSDIGLAGLA--SKSVSG	308
chr6_79cM_OsJ0005A22-GS	256	---FD---YVEGQMLNRT	---TQGRSSS-----FSRTLAGLAGIDTGSVA	299
AtCKX2	297	---VLEVRKIVYDDPNLP	---ISKVIDTLTKTISVLP-----DFISMHADVAFDFLNRVHVEENK	351
AtCKX3	316	CL---SVVKIYVDETSQVYNEMEELSDS	---NHVR-----DFVYKDVMTIDFLNRVRTGELN	369
AtCKX4	320	---VLEVRKIVYDRTTLP	---IDQVIDTLSTRTGFAP-----DFMAYQDVAFDFLNRVARNEDK	374
chr1_25cM_P695A04_GS	325	V---VSIERTLNYARNATPSSVD	ARVAAALGOALHFEEDGFSRSDVTVEEFLDRVYGEER	382
chr1_27cM_P419B01_FcDNA	341	VLFLFEGRIFFGGAGP	SADVDKRMIDVLAARELRAHERGVFAQDVAVAGFLDRVHOGELK	400
chr2_32cM-M1-MGS	312	VIFIEGRIYNEESTTASVDOKL	TSVLEQISFDK-----DFVTKDVSIVQFLDRV--REBER	367
chr2_32cM-M2-MGS	309	VIVIEGRIYNEESTTTHDQKLES	ILGQLSFEE-----DFVTKDVRVWQFLDRV--REBER	364
chr6_79cM_OsJ0005A22-GS	300	---VYIEGRIYDDNTARSVDOKL	DALLEELSFVR-----DFVYVRDASVVEFLDRVGREEDN	355
AtCKX2	352	---ASLALDELPHIPNLNLFVPAK	BRILDFANISVWQIILKOKSAS--ALAL--VPTNRRNKIJD	408
AtCKX3	370	---KSKQQLIDVPHIPNLNLFVPAK	TQIISKFDQSVFKGIILANNITS--SPVLN--VPTNRRNKIJD	426
AtCKX4	375	---ASLALDELPHIPNLNLFVPG	BRILQDFHOSYINILANQTS--SVTF--VPTNRRNKIJD	431
chr1_25cM_P695A04_GS	383	---EKRALIDVPHIPNLNLFVPG	BRILQDFHOSYINILANQTS--SVTF--VPTNRRNKIJD	439
chr1_27cM_P419B01_FcDNA	401	---PARALIDVPHIPNLNLFVPG	BRILQDFHOSYINILANQTS--SVTF--VPTNRRNKIJD	456
chr2_32cM-M1-MGS	368	ILASIDVPHIPNLNLFVPAQ	BRILDFDTGVLKGVFVGANPV--SVILN--VPTNRRNKIJD	424
chr2_32cM-M2-MGS	365	VLASIDVPHIPNLNLFVPAQ	BRILDFDTGVLKGVFVGANPV--SVILN--VPTNRRNKIJD	421
chr6_79cM_OsJ0005A22-GS	356	---ASLALIDVPHIPNLNLFVPA	BRILDFDTGVLKGVFVGANPV--SVILN--VPTNRRNKIJD	411

FIG. 8

AtCKX2	409	RMSAIIPEID-EDVFMII	461	FKXS---	501	---
AtCKX3	427	EDVFMII	477	FKQEDR-NMIVIDYL	523	---
AtCKX4	432	EDVFMII	483	FKQEDR-NMIVIDYL	524	---
chr1_25cM_P695A04_GS	440	EDVFMII	492	FKQEDR-NMIVIDYL	533	---
chr1_27cM_P419B01_FcDNA	457	EDVFMII	511	FKQEDR-NMIVIDYL	558	---
chr2_32cM-M1-MGS	425	EDVFMII	476	FKQEDR-NMIVIDYL	527	---
chr2_32cM-M2-MGS	422	EDVFMII	473	FKQEDR-NMIVIDYL	524	---
chr6_79cM_L0sJ0006A22-GS	412	EDVFMII	468	FKQEDR-NMIVIDYL	521	---
AtCKX2	462	FKQEDR-NMIVIDYL	501	---	501	---
AtCKX3	478	FKQEDR-NMIVIDYL	523	---	523	---
AtCKX4	484	FKQEDR-NMIVIDYL	524	---	524	---
chr1_25cM_P695A04_GS	493	FKQEDR-NMIVIDYL	533	---	533	---
chr1_27cM_P419B01_FcDNA	512	FKQEDR-NMIVIDYL	555	---	558	---
chr2_32cM-M1-MGS	477	FKQEDR-NMIVIDYL	520	---	527	---
chr2_32cM-M2-MGS	474	FKQEDR-NMIVIDYL	517	---	524	---
chr6_79cM_L0sJ0006A22-GS	469	FKQEDR-NMIVIDYL	521	---	521	---
AtCKX2	501	---	501	---	501	---
AtCKX3	523	---	523	---	523	---
AtCKX4	524	---	524	---	524	---
chr1_25cM_P695A04_GS	533	---	533	---	533	---
chr1_27cM_P419B01_FcDNA	556	---	558	---	558	---
chr2_32cM-M1-MGS	521	---	527	---	527	---
chr2_32cM-M2-MGS	518	---	524	---	524	---
chr6_79cM_L0sJ0006A22-GS	522	---	521	---	521	---

FIG. 9

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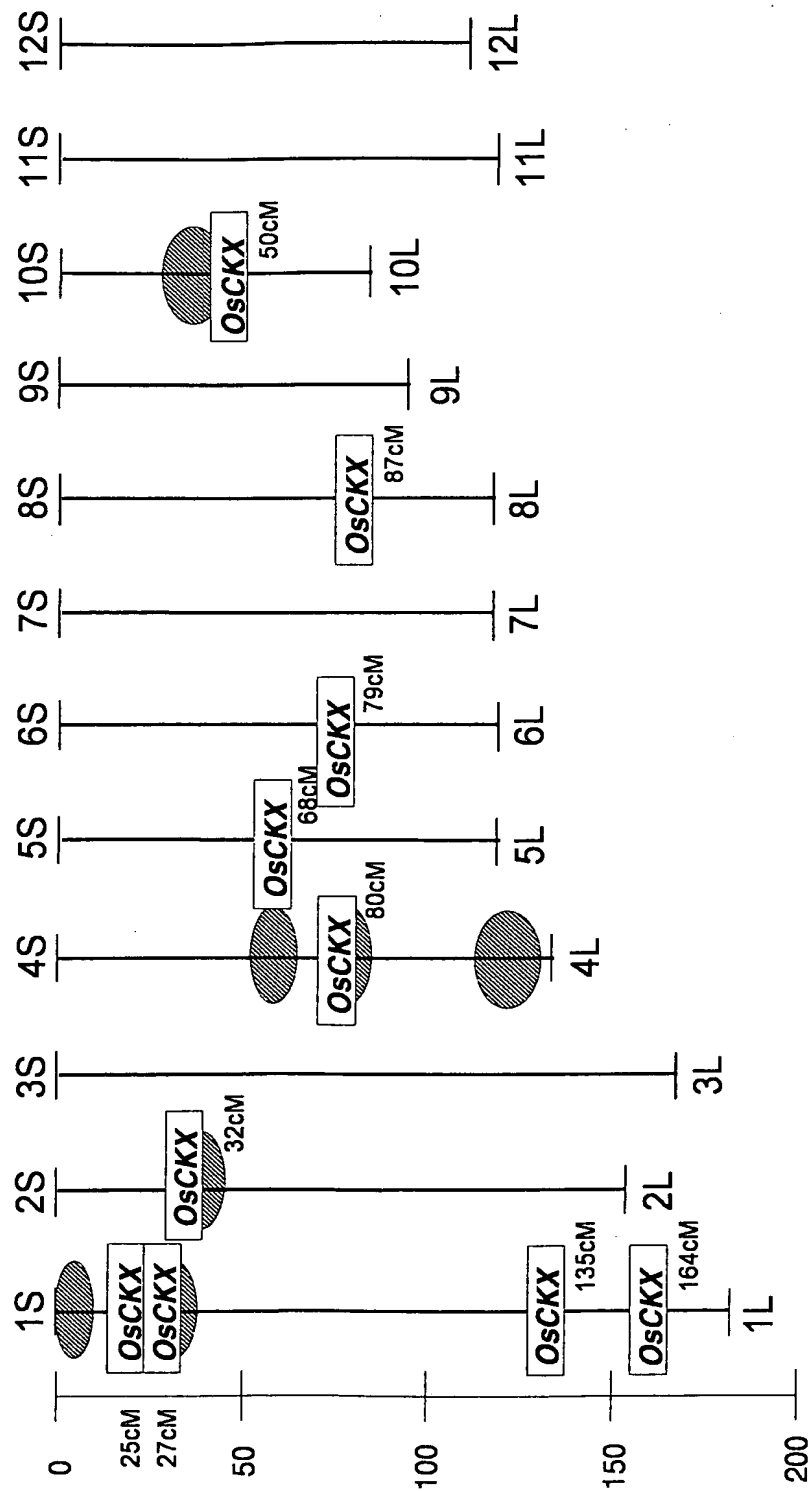


FIG. 10